

SAFETY DATA SHEET

1. Product and Company Identification

Product identifier Pool Perfect Total

Not available Other means of identification

Recommended use Pool Water Treatment

Recommended restrictions Manufacturer information NC Brands 40 Richards Ave. Norwalk, CT 06854 US

Emergency Phone: CHEMTREC (800) 424-9300

Supplier See above.

2. Hazards Identification

Physical hazards Not classified.

Health hazards Serious eye damage/eye irritation Category 2

Phone: (800) 753-1233

Environmental hazards Not classified. WHMIS 2015 defined hazards Not classified

Label elements



None known

Signal word Warning

Hazard statement Causes serious eye irritation.

Precautionary statement

Wash thoroughly after handling. Wear eye protection/face protection. Prevention

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present Response

and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Storage Store away from incompatible materials.

Dispose of waste and residues in accordance with local authority requirements. Disposal

WHMIS 2015: Health Hazard(s)

not otherwise classified

(HHNOC)

Mixture

None known

WHMIS 2015: Physical Hazard(s) not otherwise

classified (PHNOC)

Hazard(s) not otherwise

classified (HNOC)

None known

None known.

Supplemental information Not applicable.

3. Composition/Information on Ingredients

Chemical name Common name and synonyms **CAS** number % Aluminum chlorhydrate 12042-91-0 5 20211-76-1 Lanthanum Chloride (lacl3), 5 Hydrate Alcohols, C9-11, ethoxylated 68439-46-3 2

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First Aid Measures

Inhalation If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention. Wash off with soap and water. Get medical attention if irritation develops and persists. Skin contact

#26725 Page: 1 of 8 Issue date 09-March-2017 Eye contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Rinse mouth. Do NOT induce vomiting. If vomiting occurs naturally, have victim lean forward to Ingestion reduce risk of aspiration. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention. Most important Symptoms may include stinging, tearing, redness, swelling, and blurred vision. symptoms/effects, acute and delayed Indication of immediate Provide general supportive measures and treat symptomatically. Keep victim under observation. medical attention and special Symptoms may be delayed. treatment needed **General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Avoid contact with eyes and skin. Wear rubber gloves and safety glasses with side shields. Keep out of reach of children. 5. Fire Fighting Measures Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Suitable extinguishing media Unsuitable extinguishing Do not use water jet as an extinguisher, as this will spread the fire. media Specific hazards arising from During fire, gases hazardous to health may be formed. the chemical Special protective equipment Self-contained breathing apparatus and full protective clothing must be worn in case of fire. and precautions for firefighters Move containers from fire area if you can do so without risk. Fire-fighting equipment/instructions Specific methods Use standard firefighting procedures and consider the hazards of other involved materials. General fire hazards No unusual fire or explosion hazards noted. **Hazardous combustion** May include and are not limited to: Hydrogen chloride. Oxides of carbon. products 6. Accidental Release Measures Keep unnecessary personnel away. Keep out of low areas. Keep people away from and upwind of Personal precautions, protective equipment and spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure emergency procedures adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS. Stop the flow of material, if this is without risk. Methods and materials for containment and cleaning up Large Spills: Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. **Environmental precautions** Avoid discharge into drains, water courses or onto the ground. 7. Handling and Storage Avoid contact with eyes, skin and clothing. Avoid prolonged exposure. Provide adequate Precautions for safe handling

ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene

practices. Use care in handling/storage. Conditions for safe storage,

Keep container tightly closed. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure Controls/Personal Protection

Occupational exposure limits

including any incompatibilities

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) Components Value Type

Aluminum chlorhydrate (CAS 12042-91-0)

TWA

2 mg/m3

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Type	Value	Form	
Aluminum chlorhydrate (CAS 12042-91-0)	TWA	1 mg/m3	Respirable.	

Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

Components	Туре	Value	Form
Aluminum chlorhydrate	TWA	1 mg/m3	Respirable fraction.
(CAS 12042-91-0)			

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	Type	Value	Form
Aluminum chlorhydrate (CAS 12042-91-0)	TWA	1 mg/m3	Respirable fraction.

Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

e value	
4 2 mg/m3	

US. ACGIH Threshold Limit Values

Components	Туре	Value	Form
Aluminum chlorhydrate (CAS 12042-91-0)	TWA	1 mg/m3	Respirable fraction.

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Туре	Value	
Aluminum chlorhydrate (CAS 12042-91-0)	TWA	2 mg/m3	

Biological limit values No biological exposure limits noted for the ingredient(s).

Exposure guidelines Chemicals listed in section 3 that are not listed here do not have established limit values for

ACGIH or OSHA PEL.

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Rubber gloves. Confirm with a reputable supplier first.

Other Wear suitable protective clothing.

Not available.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards Not applicable.

General hygiene considerations

Partition coefficient

#26725

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

Issue date 09-March-2017

equipment to remove contaminants.

9. Physical and Chemical Properties

Appearance	Liquid
Physical state	Liquid.
Form	Liquid
Color	Amber
Odor	Not available.
Odor threshold	Not available.
pH	2 - 5
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Pour point	Not available.
Specific gravity	1 - 1.1

(n-octanol/water)

Page: 3 of 8

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure
Vapor density
Relative density
Solubility(ies)
Auto-ignition temperature
Not available.
Not available.
Complete
Not available.
Not available.
Not available.

Other information

Density 8.00 - 9.00

10. Stability and Reactivity

Reactivity May react with strong bases or oxidizing agents.

Not available.

Possibility of hazardous

reactions

Viscosity

No dangerous reaction known under conditions of normal use.

Chemical stabilityConditions to avoidMaterial is stable under normal conditions.Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

May include and are not limited to: Oxides of carbon. Hydrogen chloride.

11. Toxicological Information

Routes of exposure Inhalation. Eye contact. Skin contact. Ingestion.

Information on likely routes of exposure

IngestionExpected to be a low ingestion hazard.InhalationProlonged inhalation may be harmful.

Skin contact May cause irritation.

Eye contact Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Information on toxicological effects

Acute toxicity

Components Species Test Results

Alcohols, C9-11, ethoxylated (CAS 68439-46-3)

Acute

Dermal

LD50 Rabbit 2216 mg/kg, 24 Hours, ECHA

2000 mg/kg, 24 Hours

Rat > 5000 mg/kg, HMIRA

> 2000 mg/kg, 24 Hours

Inhalation

LC50 Rat > 1600 mg/m3, 4 Hours

> 100 mg/m³, 6 hours, ECHA

> 20 mg/L, 1 hours, Shell

Components Species Test Results
> 1.6 mg/L, 4 Hours

Oral

LD50 Rat 4600 mg/kg, ECHA

3488 mg/kg, ECHA

1400 mg/kg, Air products

1378 mg/kg, SAX

Aluminum chlorhydrate (CAS 12042-91-0)

Acute

Dermal

LD50 Rabbit > 2000 mg/kg, ECHA

Rat > 2000 mg/kg, 21 Days

> 2000 mg/kg, 24 Hours

Inhalation

LC50 Not available

Oral

LD50 Rat > 2000 mg/kg, ECHA, male rat

9187 mg/kg, ECHA, female rat

Lanthanum Chloride (lacl3), Hydrate (CAS 20211-76-1)

AcuteDermal

LD50 Not available

Inhalation

LC50 Not available

Oral

LD50 Rat 4184 mg/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Exposure minutesNot available.Erythema valueNot available.Oedema valueNot available.

Serious eye damage/eye

irritation

Causes serious eye irritation.

Corneal opacity value Not available.

Iris lesion value Not available.

Conjunctival reddening Not available.

value

Not available.

Conjunctival oedema value Not available.

Recover days Not available.

Respiratory or skin sensitization

Canada - Alberta OELs: Irritant

Aluminum chlorhydrate (CAS 12042-91-0) Irritant

Respiratory sensitization Not available.

Skin sensitization This product is not expected to cause skin sensitization.

Mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

Canada - Manitoba OELs: carcinogenicity

ALUMINUM METAL AND INSOLUBLE COMPOUNDS, Not classifiable as a human carcinogen. RESPIRABLE FRACTION (CAS 12042-91-0)

SUCROSE (CAS 57-50-1) Not classifiable as a human carcinogen.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicityThis product is not expected to cause reproductive or developmental effects.

Teratogenicity Not available.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard

Not available.

Chronic effects

Prolonged inhalation may be harmful.

12. Ecological Information

Ecotoxicity See below

Ecotoxicological data

Components Species Test Results

Alcohols, C9-11, ethoxylated (CAS 68439-46-3)

Fish Rainbow Trout 70.7 mg/L, 96 Hours

Aquatic

Crustacea EC50 Water flea (Daphnia magna) 2.9 - 8.5 mg/L, 48 hours
Fish LC50 Fathead minnow (Pimephales promelas) 6 - 12 mg/L, 96 hours

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potentialNo data available.Mobility in soilNo data available.Mobility in generalNot available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal Considerations

Disposal instructionsCollect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste codeThe waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport Information

Transport of Dangerous Goods (TDG) Proof of Classification

In accordance with Part 2.2.1 (SOR/2014-152) of the Transportation of Dangerous Goods Regulations, we certify that the classification of this product is correct as of the SDS date of issue.

U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

15. Regulatory Information

Canadian federal regulations

This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

Precursor Control Regulations

Not regulated.

WHMIS 2015 Exemptions Not applicable

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

#26725 Page: 6 of 8 Issue date 09-March-2017

CERCLA Hazardous Substance List (40 CFR 302.4)

Diethylene glycol monoethyl ether (CAS 111-90-0) Listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

No

SARA 311/312 Hazardous

No

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Diethylene glycol monoethyl ether (CAS 111-90-0)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

US state regulations

US - California Hazardous Substances (Director's): Listed substance

Aluminum chlorhydrate (CAS 12042-91-0)

Listed.

US - Illinois Chemical Safety Act: Listed substance

Diethylene glycol monoethyl ether (CAS 111-90-0)

US - Louisiana Spill Reporting: Listed substance

Diethylene glycol monoethyl ether (CAS 111-90-0) Listed.

US - Minnesota Haz Subs: Listed substance

alpha-D-Glucopyranoside, beta-D-fructofuranosyl (CAS Listed.

57-50-1)

Aluminum chlorhydrate (CAS 12042-91-0)

Diethylene glycol monoethyl ether (CAS 111-90-0)

Listed.

Listed.

US - New Jersey RTK - Substances: Listed substance

Diethylene glycol monoethyl ether (CAS 111-90-0)

US - Texas Effects Screening Levels: Listed substance

1,2-Ethanediamine, polymer with (chloromethyl)oxirane Listed.

and N-methylmethanamine (CAS 42751-79-1)

Alcohols, C9-11, ethoxylated (CAS 68439-46-3) Listed. alpha-D-Glucopyranoside, beta-D-fructofuranosyl (CAS Listed.

57-50-1)

Aluminum chlorhydrate (CAS 12042-91-0) Listed. Diethylene glycol monoethyl ether (CAS 111-90-0) Listed.

US. Massachusetts RTK - Substance List

alpha-D-Glucopyranoside, beta-D-fructofuranosyl (CAS 57-50-1)

US. New Jersey Worker and Community Right-to-Know Act

Diethylene glycol monoethyl ether (CAS 111-90-0)

US. Pennsylvania Worker and Community Right-to-Know Law

alpha-D-Glucopyranoside, beta-D-fructofuranosyl (CAS 57-50-1)

Aluminum chlorhydrate (CAS 12042-91-0)

Diethylene glycol monoethyl ether (CAS 111-90-0)

US. Rhode Island RTK

Diethylene glycol monoethyl ether (CAS 111-90-0)

US. California Proposition 65

Not Listed.

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0





Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available. Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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Other information For an updated SDS, please contact the supplier/manufacturer listed on the first page of the

document.